

Vienna Instruments
Solo Download Instruments
Basset Horn
Full Library

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Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one of our Solo Download Instruments! This document contains the mapping information for the "Full" version of the Vienna Instruments Bassoon. You will find in it a comprehensive survey of the articulations/Patches content, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

"Full" Library

As opposed to the "Standard" versions of our Solo Download Instruments, the "Full" versions are identical with the corresponding instruments of a DVD Collection, i.e., they contain exactly the same samples, Patches, Matrices and Presets as the latter without any restrictions.

Installing a Download Instrument's Full version copies that instrument's sample content to a separate folder on your hard disk, so that it is not necessary to keep its Standard version installed – you may either delete it from your hard disk or at least remove it from the Directory Manager's list of activated instruments. In the Vienna Instruments Browser, the path of the Full version will be the same as that of the corresponding DVD Instrument, so that you can still see both versions as separate entries if you keep the Standard version installed.

Data paths and Patch name conventions

Since the Full versions of Download Instruments conform to the corresponding DVD Instruments, the data paths in your Vienna Instruments browser will be different than those of Standard Download or Special Edition Instruments. For instance, the path of the Standard Download Library of Flute 1 is "02D Flute-1", and all Patches can be found in this folder regardless of the articulation group they belong to. The Patch number is also marked with a "D" so that you immediately know it is a Download Instrument. In the Vienna Special Edition, Flute 1 is located in the folder "11 Flutes" together with the other flutes. Here, the Patch number is marked with an "S". The Full Download of Flute 1 is located in the subfolder "32 Flute" of the section "Woodwind Patches", which again contains subfolders grouping the Patches according to type, e.g., "01 SHORT + LONG NOTES", "02 DYNAMICS", etc. Patch names of the Full Download Library may differ from the corresponding ones of the Standard Download Library.

While Full Download Instruments contain all articulations of the corresponding DVD Instruments, their Patches are not divided into Standard and Extended content. The list of articulations further down which gives a summary of the Library's contents.

Special Patch configurations which sometimes are part of a Standard Download Instrument may be found in a reserved folder called "98 RESOURCES" in the Full Instrument. E.g., Flute 1 Standard contains the Patch "22D FL1 legato-sus"; in Flute 1 Full, this Patch is called "01 FL1_perf_leg_sustain" and is located in the Resources' subfolder "03 Perf Speed variation". (Apart from that, it also contains more samples.) Other articulations that can be found in the Resources folder are isolated dynamics repetitions in the subfolder "01 Perf Rep dyn" – e.g., the five repetitions of a legato crescendo, divided into separate Patches – and extracted velocity layers of sustained notes in the subfolder "02 Long Notes – Single Layer".

Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary.

Where the type of articulation requires a special mapping (e.g., natural harmonics patches), the mapping layout will be shown in a detailed graphic.

Major and minor runs are always mapped to the keys of their scale, as are **arpeggios** to the keys of the broken chord played. **Grace notes** and **mordents** are mapped to their target note, i.e., the note the articulation ends with. Due to their nature, all **upward and downward articulations** (e.g., fixed glissandos and octave runs) have different mapping ranges – the upward movements ending the involved interval below the Patch's upper mapping range, while downward movements end the interval above its lower mapping range. (Please note that not all of the articulations mentioned above may be contained in your Collection.)

The Patch information also lists a Patch's velocity layers in detail. Velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements:

Layers	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6
2	1–88	89–127				
3	1–55	56–88	89–127			
4	1–55	56–88	89–108	109–127		
5	1–24	25–55	56–88	89–108	109–127	
6	1–24	25–55	56–88	89–108	109–118	119–127

Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments. They allow you to play authentic legato without any programming tricks. In our Silent Stage, all intervals from minor second to the octave were recorded for every instrument – up and down, of course; that makes 24 interval samples per note for one velocity alone! When you load an interval performance Patch and play a line on your keyboard, the software automatically joins the right samples with their interval transitions again, and you hear a perfect legato. By the way, this technique is not only used for legato but also for other articulations like the strings' portamento, marcato, or détaché and spiccato articulations.

Interval performances also contain at least two legato repetitions for every note which alternate automatically whenever you strike a key more than once. There also are preconfigured thresholds for legato and repetition notes: The legato threshold – i.e., the maximum break between notes where legato is played – is 50 ms. Otherwise, a sustained starting note will sound so that you can easily start a new phrase without leaving the legato Patch. For note repetitions, the threshold is 200 ms: a break up to that duration will yield a legato repetition; if the break is longer, a new starting note. But of course, it's mingling legato with other articulations which makes a piece really come alive.

Due to their nature, all interval performances are monophonic; otherwise, the software would have to be able to decide which source note belongs to which target note. To circumvent this, you can open two VI instances of the same instrument on separate MIDI tracks without any additional strain on your RAM.

Note: the Vienna Instruments PRO player software also allows you to play polyphonic Interval performances.

Another variety of interval performance you will come across is the “perf-leg_sus” Patch. These Patches also contain normal legatos, only the target note of each interval is crossfaded into a looped sustain. They can be used for slower pieces with long notes; however, you should use them with circumspection, since plain legatos sound more lively because they not only render the interval transitions as they were played, but also have different target samples for every interval instead of the same sustained note: When you play, e.g., c–e and then c#–e with normal legato, you will get two different “e” tones; with sus-legato you won't.

Matrix information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

A/B switching normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo. However, some bass instruments go below that range so that the A/B keys have to be adapted accordingly. For example, the A/B switches for double bass are A0 and A#0 because the instrument's lower range extends to B0.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

Speed controller switches naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller's settings at the **Control edit** page, and save the result in your Custom Matrix folder.

Preset information

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes (VI: 101–112; VI PRO: 1–127) instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes. Vienna Instruments PRO also allows you to define a MIDI Control for Preset keyswitching.

Abbreviations

Here's a list of abbreviations in Patch names, which will help you to determine a Patch's content even without the help of the Vienna Instruments browser. Please note that not all of the abbreviations may occur in the manual on hand.

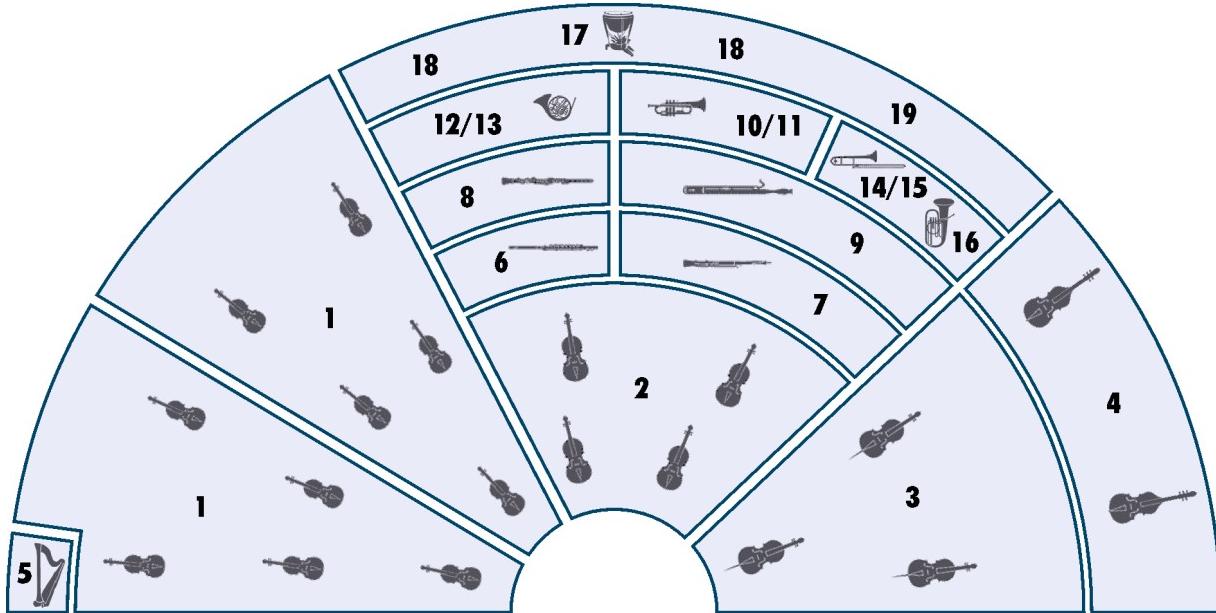
Abbreviation	Meaning	Abbreviation	Meaning
150, 160, ...	150, 160, ... BPM (beats per minute)	leg	legato
1s, 2s, ...	1 sec., 2.sec. ... duration	lo	long
all	combination of all Patches of a category	me	medium
cre	crescendo	nA	normal attack
cre5, cre9	crescendo, 5/9 repetitions	noVib	without vibrato
dim	diminuendo	perf-rep	repetition performance
dim5, dim9	diminuendo, 5/9 repetitions	por	portato
dyn	dynamics (crescendo and diminuendo)	RS	release sample
dyn5, dyn9	dynamics, 5/9 repetitions	sA	soft attack
fa	fast	sl	slow
fast-rep	fast repetitions	sta, stac	staccato
flatter	flutter tonguing	str	strong
hA	hard attack	sus	sustained
		Vib	with (medium) vibrato
		XF	cell crossfade Matrix

Articulations

42 Bassett Horn	
01 SHORT + LONG NOTES	Staccato Portato short and medium Portato long with soft and hard attack Sustained
02 DYNAMICS	Medium dynamics, 1.5/2/3/4 sec. Strong dynamics, 1.5/2/3/4/6 sec. Crescendo-diminuendo, 2/3/4/6/8 sec. Fortepiano, sforzato, sforzatissimo
03 FLATTER	Flutter tonguing, normal and crescendo
10 PERF INTERVAL	Legato Marcato
11 PERF INTERVAL FAST	Legato Marcato
12 PERF TRILL	Trills, legato, minor 2nd to major 3rd
13 PERF REPETITION	Legato Portato Staccato Normal and dynamics
14 FAST REPETITION	Staccato, 120 to 180 BPM Normal and dynamics

The orchestra

There are several ways of setting up an orchestra, depending on the era of the piece played, the type of the piece and the instruments it requires, and even on the preference of the conductor. The figure below shows one of the more common setups, which can be taken as a guideline for mixing a composition, properly positioning the instruments in the stereo field and adding reverb according to the size of the concert hall you want your piece to be played in.



- 1 1st and 2nd violin
- 2 Viola
- 3 Cello
- 4 Double bass
- 5 Harp
- 6 Concert flute, piccolo
- 7 Oboe, English horn
- 8 Clarinet, bass clarinet

- 9 Bassoon, contrabassoon
- 10/11 Trumpet
- 12/13 Horn
- 14/15 Trombone
- 16 Tuba
- 17 Timpani
- 18 Drums, cymbals
- 19 other percussion instruments

Pitch

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

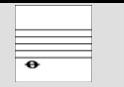
You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

42 Bassett Horn

Patches

01 SHORT + LONG NOTES

Range: F2–C6



01 BH_staccato

Samples: 352 RAM: 22 MB

Staccato

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

2 Alternations

02 BH_portato_short

Samples: 352 RAM: 22 MB

Portato, short

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

2 Alternations

03 BH_portato_medium

Samples: 352 RAM: 22 MB

Portato, medium

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

2 Alternations

04 BH_portato_lo_sA

Samples: 308 RAM: 19 MB

Portato, long, soft attack

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

Release samples

05 BH_portato_lo_hA

Samples: 308 RAM: 19 MB

Portato, long, hard attack

3 velocity layers: 0–55 p; 56–108 mf; 109–127 f

Release samples

11 BH_sus

Samples: 352 RAM: 22 MB

Sustained, normal attack

4 velocity layers: 0–55 p; 56–88 mp; 89–108 mf; 109–127 f

Release samples

**02 DYNAMICS****Range: F2–B5****01 BH_dyn-me_1'5s****Samples: 88****RAM: 5 MB**

Medium crescendo and diminuendo, 1.5 sec.

2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf

AB switch: crescendo/diminuendo

02 BH_dyn-me_2s**Samples: 88****RAM: 5 MB**

Medium crescendo and diminuendo, 2 sec.

2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf

AB switch: crescendo/diminuendo

03 BH_dyn-me_3s**Samples: 88****RAM: 5 MB**

Medium crescendo and diminuendo, 3 sec.

2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf

AB switch: crescendo/diminuendo

04 BH_dyn-me_4s**Samples: 88****RAM: 5 MB**

Medium crescendo and diminuendo, 4 sec.

2 velocity layers: 0–88 p-mf/mf-p; 89–127 mf-f/f-mf

AB switch: crescendo/diminuendo

11 BH_dyn-str_1'5s**Samples: 44****RAM: 2 MB**

Strong crescendo and diminuendo, 1.5 sec.

1 velocity layer

AB switch: crescendo/diminuendo

12 BH_dyn-str_2s**Samples: 44****RAM: 2 MB**

Strong crescendo and diminuendo, 2 sec.

1 velocity layer

AB switch: crescendo/diminuendo

13 BH_dyn-str_3s**Samples: 44****RAM: 2 MB**

Strong crescendo and diminuendo, 3 sec.

1 velocity layer

AB switch: crescendo/diminuendo

14 BH_dyn-str_4s**Samples: 44****RAM: 2 MB**

Strong crescendo and diminuendo, 4 sec.

1 velocity layer

AB switch: crescendo/diminuendo

15 BH_dyn-str_6s**Samples: 44****RAM: 2 MB**

Strong crescendo and diminuendo, 6 sec.

1 velocity layer

AB switch: crescendo/diminuendo

21 BH_pfp_2s**Samples: 44****RAM: 2 MB**

Crescendo-diminuendo, 2 sec.

2 velocity layers: 0–88 p; 89–127 f

22 BH_pfp_3s	Samples: 44	RAM: 2 MB
Crescendo-diminuendo, 3 sec. 2 velocity layers: 0–88 p; 89–127 f		
23 BH_pfp_4s	Samples: 44	RAM: 2 MB
Crescendo-diminuendo, 4 sec. 2 velocity layers: 0–88 p; 89–127 f		
24 BH_pfp_6s	Samples: 44	RAM: 2 MB
Crescendo-diminuendo, 6 sec. 2 velocity layers: 0–88 p; 89–127 f		
25 BH_pfp_8s	Samples: 22	RAM: 1 MB
Crescendo-diminuendo, 8 sec. 1 velocity layer		
31 BH_fp	Range: F2–C6	Samples: 44
Fortepiano 1 velocity layer		RAM: 2 MB
32 BH_sfz	Range: F2–C6	Samples: 44
Sforzato 1 velocity layer		RAM: 2 MB
33 BH_sffz	Range: F2–C6	Samples: 44
Sforzatissimo 1 velocity layer		RAM: 2 MB
03 FLATTER		Range: F2–C6
		
01 BH_flatter	Samples: 88	RAM: 5 MB
Flutter tonguing, forte 1 velocity layer Release samples		
02 BH_flatter_cre	Samples: 44	RAM: 2 MB
Flutter tonguing, crescendo 1 velocity layer		

**10 PERF INTERVAL****Range: F2–B5****01 BH_perf-legato**

Legato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

Samples: 1148 RAM: 71 MB**02 BH_perf-marcato**

Marcato

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

Samples: 1148 RAM: 71 MB**11 PERF INTERVAL FAST****Range: F2–B5****01 BH_perf-legato_fa**

Legato, fast

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

Samples: 1232 RAM: 77 MB**02 BH_perf-marcato_fa**

Marcato, fast

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

Samples: 1232 RAM: 77 MB**12 PERF TRILL****Range: F2–B5****01 BH_perf-trill****Samples: 2836 RAM: 177 MB**

Performance trills, legato, minor 2nd to major 3rd

Monophonic

2 velocity layers: 0–88 p; 89–127 f

Release samples

**13 PERF REPETITION**

Range: F2–B5

01 BH_perf-rep_leg

Repetition performances: Legato
2 velocity layers: 0–88 p; 89–127 f

Samples: 220 RAM: 13 MB

02 BH_perf-rep_por

Repetition performances: Portato
2 velocity layers: 0–88 p; 89–127 f

Samples: 396 RAM: 24 MB

03 BH_perf-rep_sta

Repetition performances: Staccato
2 velocity layers: 0–88 p; 89–127 f

Samples: 352 RAM: 22 MB

11 BH_perf-rep_dyn5_leg

Repetition performances: Legato dynamics, 5 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

Samples: 220 RAM: 13 MB

12 BH_perf-rep_dyn9_por

Repetition performances: Portato dynamics, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

Samples: 396 RAM: 24 MB

13 BH_perf-rep_dyn9_sta

Repetition performances: Staccato dynamics, 9 repetitions
1 velocity layer
AB switch: crescendo/diminuendo

Samples: 396 RAM: 24 MB

**14 FAST REPETITION**

Range: F2–B5

01 BH_fast-rep_120 (130/140/150/160/170/180)

Fast repetitions: Staccato, 9 repetitions, 120–180 BPM
2 velocity layers: 0–88 p; 89–127 f
Release samples

Samples: 88 RAM: 5 MB

11 BH_fast-rep_120_dyn (130/140/150/160/170/180)

Fast repetitions: Staccato, 9 repetitions, 120–180 BPM, crescendo and diminuendo
1 velocity layer
AB switch: crescendo/diminuendo

Samples: 44 RAM: 2 MB

98 RESOURCES

Isolated dynamics repetitions: Legato, portato, staccato
Single layer long notes

01 Perf Rep dyn

Range: F2–B5

**01 BH_rep_cre5_leg-1 (2/3/4/5)**

Samples: 22 RAM: 1 MB

Extracted repetition
Legato, crescendo, 1st to 5th note
1 velocity layer

01 BH_rep_dim5_leg-1 (2/3/4/5)

Samples: 22 RAM: 1 MB

Extracted repetition
Legato, diminuendo, 1st to 5th note
1 velocity layer

02 BH_rep_cre9_por-1 (2/3/4/5/6/7/8/9)

Samples: 22 RAM: 1 MB

Extracted repetition
Portato, crescendo, 1st to 9th note
1 velocity layer

02 BH_rep_dim9_por-1 (2/3/4/5/6/7/8/9)

Samples: 22 RAM: 1 MB

Extracted repetition
Portato, diminuendo, 1st to 9th note
1 velocity layer

03 BH_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)

Samples: 22 RAM: 1 MB

Extracted repetition
Staccato, crescendo, 1st to 9th note
1 velocity layer

03 BH_rep_dim9_sta-1 (2/3/4/5/6/7/8/9)

Samples: 22 RAM: 1 MB

Extracted repetition
Staccato, diminuendo, 1st to 9th note
1 velocity layer

02 Long Notes - Single Layer

Range: F2–C6

**01 BH_sus_p**

Samples: 88 RAM: 5 MB

Sustained, piano
1 velocity layer
Release samples

02 BH_sus_mp

Samples: 88 RAM: 5 MB

Sustained, mezzopiano
1 velocity layer
Release samples

03 BH_sus_mf**Samples: 88** **RAM: 5 MB**

Sustained, mezzoforte
1 velocity layer
Release samples

04 BH_sus_f**Samples: 88** **RAM: 5 MB**

Sustained, forte
1 velocity layer
Release samples

99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

Matrices

Matrix - LEVEL 1

L1 BH Articulation Combi

Samples: 1276 RAM: 79 MB

Single note articulations

Staccato, portato short, sustained, fortepiano and sforzato, flutter tonguing normal and crescendo

Matrix switches: Horizontal: Keyswitches, C1–D#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1
V1	staccato	sustained	fortepiano	flutter
V2	portato short	sustained	sforzato	flutter cres.

L1 BH Perf-Legato Speed

Samples: 1400 RAM: 87 MB

Interval performances: Legato normal and fast

Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
legato	normal speed	fast

Matrix - LEVEL 2 A - Advanced

01 BH Perf-Universal

Samples: 2712 RAM: 169 MB

Interval performances: Legato normal and fast

Marcato normal and fast

Speed controller

Matrix switches: Horizontal: Speed, 2 zones

Vertical: Modwheel, 2 zones

	H1	H2
legato	normal	fast
marcato	normal	fast

02 BH Perf-Trill Speed

Samples: 3164 RAM: 197 MB

Multi interval performances: Legato and trills

Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

03 BH Short+Long notes - All

Samples: 1672 RAM: 104 MB

Single notes

Staccato

Portato short and medium

Portato long with soft and hard attack

Sustained

Matrix switches: Horizontal: Keyswitches, C1–E1

Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	staccato	portato short	portato medium	portato long soft	sustained
V2	%	%	%	portato long hard	%

Matrix - LEVEL 2 B - Standard**11 BH Perf-Legato Speed****Samples: 1400 RAM: 87 MB**

Interval performances: Legato normal and fast

Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
legato	normal speed	fast
	H1	H2

12 BH Perf-Marcato Speed**Samples: 1400 RAM: 87 MB**

Interval performances: Marcato normal and fast

Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
marcato	normal speed	fast
	H1	H2

13 BH Dynamics**Samples: 660 RAM: 41 MB**

Dynamics

Medium crescendo and diminuendo 2, 3, and 4 sec.

Strong crescendo and diminuendo 2, 3, and 4 sec.

Crescendo-diminuendo 2, 3, and 4 sec.

Fortepiano, sforzato, sforzatissimo

Matrix switches: Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
V1	med. dyn. 2 sec.	med. dyn. 3 sec.	med. dyn. 4 sec.
V2	strong dyn. 2 sec.	strong dyn. 3 sec.	strong dyn. 4 sec.
V3	pfp 2 sec.	pfp 3 sec.	pfp 4 sec.
V4	fortepiano	sforzato	sforzatissimo

14 BH Flatter**Samples: 132 RAM: 8 MB**

Flutter tonguing

Normal, crescendo, and normal/crescendo with Cell crossfading

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal	crescendo	Cell XF
	C1	C#1	D1

Matrix - LEVEL 2 C - Repetitions**21 BH Perf-Repetitions - Combi**

Samples: 968 RAM: 60 MB

Repetition performances

Legato, portato, and staccato

Matrix switches: Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	legato	portato	staccato

22 BH Perf-Repetitions - Speed

Samples: 968 RAM: 60 MB

Repetition performances

Legato, portato, and staccato

Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
V1	legato	portato	staccato

23 BH Fast Repetitions

Samples: 352 RAM: 22 MB

Fast repetitions

Staccato, 9 repetitions: 120, 130, 140, 150, 160, 170, 180 BPM

Matrix switches: Horizontal: Keyswitches, C1–F#1

	C1	C#1	D1	D#1	E1	F1	F#1
speed/BPM	120	130	140	150	160	170	180

Matrix - LEVEL 2 E - Keyswitch Vel**31 BH Legato - cre5**

Samples: 110 RAM: 6 MB

Legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

32 BH Portato - cre9

Samples: 198 RAM: 12 MB

Portato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

33 BH Staccato - cre9

Samples: 198 RAM: 12 MB

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

34 BH Combi - cre9**Samples: 396** **RAM: 24 MB**

Portato and staccato: Crescendo, keysheet velocity
 Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

35 BH Legato - dim5**Samples: 110** **RAM: 6 MB**

Legato notes: Diminuendo, keysheet velocity
 Keyswitches control 5 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

36 BH Portato - dim9**Samples: 198** **RAM: 12 MB**

Portato notes: Diminuendo, keysheet velocity
 Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

37 BH Staccato - dim9**Samples: 198** **RAM: 12 MB**

Staccato notes: Diminuendo, keysheet velocity
 Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

38 BH Combi - dim9**Samples: 396** **RAM: 24 MB**

Portato and staccato: Diminuendo, keysheet velocity
 Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

Presets

BH VSL Preset Level 1**Samples: 2588 RAM: 161 MB**

L1 BH Perf-Legato Speed

L1 BH Articulation Combi

Preset Keypresses: C2–C#2

BH VSL Preset Level 2**Samples: 7280 RAM: 455 MB**

01 BH Perf-Universal

02 BH Perf-Trill Speed

L1 BH Articulation Combi

21 BH Perf-Repetitions - Combi

34 BH Combi - cre9

Preset Keypresses: C2–E2